A screenshot of a cell phone

Description automatically generated

**Food**

**Instructions**

* Use **black** ink or ball-point pen.
  + **Fill in the boxes** at the top of this page with your name,  
    centre number and candidate number.
* Answer **all** questions.
* Answer the questions in the spaces provided  
  *– there may be more space than you need.*
* You must **show all your working.**
* Diagrams are **NOT** accurately drawn, unless otherwise indicated.
* If your calculator does not have a *π* button, take the value of *π* to be3.142

unless the question instructs otherwise.

**Information**

* The total mark for this paper is **58**. There are **18** questions.
* Questions have been arranged in an ascending order of mean difficulty, as found by all students in the June 2017–November 2019 examinations.
* The marks for **each** question are shown in brackets  
  *– use this as a guide as to how much time to spend on each question.*

**Advice**

1. Read each question carefully before you start to answer it.
2. Keep an eye on the time.
3. Try to answer every question.
4. Check your answers if you have time at the end.

**1** Cornflakes are sold in two sizes of box.

|  |  |
| --- | --- |
| **Size of box** | **Weight of cornflakes** |
| small | 450 g |
| large | 750 g |

Rae buys 3 small boxes of cornflakes and some large boxes of cornflakes.

In total she buys 5850 g of cornflakes.

Work out the number of large boxes of cornflakes Rae buys.

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**(Total for Question 1 is 3 marks)**

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**2** Priti is going to have a meal.

She can choose one starter and one main course from the menu.

|  |  |
| --- | --- |
| **Menu** | |
| **Starter** | **Main Course** |
| Salad | Pasta |
| Fish | Rice |
| Melon | Burger |

Write down all the possible combinations Priti can choose.

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**(Total for Question 2 is 2 marks)**

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**3** Harry has 20 sweets.

He gives 7 of the sweets to Nadia.

What fraction of the 20 sweets does Harry have now?

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**(Total for Question 3 is 2 marks)**

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**4** Dave goes into a cafe and buys 2 cups of coffee and a piece of cake.

Each cup of coffee costs £2.75

The cake costs £2.90

Dave pays with a £10 note.

He thinks he will get more than £1.50 in change.

Is Dave correct?

You must show how you get your answer.

**(Total for Question 4 is 3 marks)**

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**5** Fahima buys

2 packets of bread rolls costing £1.50 for each packet

1 bottle of ketchup costing £1.60

3 packets of sausages

Fahima pays with a £10 note.

She gets 30p change.

Fahima works out that one packet of sausages costs £2.30.

Is Fahima right?

You must show how you get your answer.

**(Total for Question 5 is 3 marks)**

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**6**  3 kg of meat costs £54.

Nina buys 2 kg of the meat.

Work out how much Nina pays.

£ .......................................................

(**Total for Question 6 is 2 marks**)

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**7** Joan asked each of 60 people to name their favourite vegetable.

Here are her results.

|  |  |
| --- | --- |
| **Vegetable** | **Frequency** |
| Peas | 24 |
| Carrots | 16 |
| Mushrooms | 20 |

Draw an accurate pie chart for her results.



(**Total for Question 7 is 3 marks**)

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**8** Sue has 2 cats.

Each cat eats  of a tin of cat food each day.

Sue buys 8 tins of cat food.

Has Sue bought enough cat food to feed her 2 cats for 14 days?

You must show how you get your answer.

**(Total for Question 8 is 3 marks)**

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**9** There are 84 calories in 100 g of banana.

There are 87 calories in 100 g of yogurt.

Priti has 60 g of banana and 150 g of yogurt for breakfast.

Work out the total number of calories in this breakfast.

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**(Total for Question 9 is 4 marks)**

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**10** A group of football fans were asked what their half time snack was.

The table below gives information about their answers.

|  |  |
| --- | --- |
| **Snack** | **Number of fans** |
| burger | 11 |
| pie | 17 |
| hot dog | 8 |

Draw an accurate pie chart for this information.



(**Total for Question 10 is 3 marks**)

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**11** 2.5 kg of apples cost £3.60.

Work out the cost of 3.5 kg of apples.

£.......................................................

**(Total for Question 11 is 2 marks)**

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**12** 5 tins of soup have a total weight of 1750 grams.

4 tins of soup and 3 packets of soup have a total weight of 1490 grams.

Work out the total weight of 3 tins of soup and 2 packets of soup.

...................................................... grams

**(Total for Question 12 is 4 marks)**

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**13** Renee buys 5 kg of sweets to sell.

She pays £10 for the sweets.

Renee puts all the sweets into bags.

She puts 250 g of sweets into each bag.

She sells each bag of sweets for 65p.

Renee sells all the bags of sweets.

Work out her percentage profit.

........................................................ %

(**Total for Question 13 is 4 marks**)

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**14** Daniel bakes 420 cakes.

He bakes only vanilla cakes, banana cakes, lemon cakes and chocolate cakes.

 of the cakes are vanilla cakes.

35% of the cakes are banana cakes.

The ratio of the number of lemon cakes to the number of chocolate cakes is 4:5

Work out the number of lemon cakes Daniel bakes.

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**(Total for Question 14 is 5 marks)**

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**15** There are some chocolates in a box.

 of the chocolates contain nuts.

The rest of the chocolates do not contain nuts.

Write down the ratio of the number of chocolates that contain nuts to the number of

chocolates that do not contain nuts.

Give your answer in the form 1 : *n*

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(**Total for Question 15 is 2 marks**)

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**16** Costcorp sells packets of mints to shop owners.

On Monday three shop owners buy mints from Costcorp.

Each shop owner buys small packets, medium packets and large packets of mints.

Alan buys 400 packets of mints.

32 % are small packets.

40 % are large packets.

Beryl buys 500 packets of mints.

 are small packets.

 are large packets.

Charlie buys 150 small packets of mints so that

number of small packets : number of medium packets = 3 : 4

Work out the total number of medium packets of mints these shop owners buy.

You must show all your working.

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**(Total for Question 16 is 5 marks)**

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**17** A farmer has 20 boxes of eggs.

There are 6 eggs in each box.

Write, as a ratio, the number of eggs in two boxes to the total number of eggs.

Give your answer in its simplest form.

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**(Total for Question 17 is 2 marks)**

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**18** Ken buys some fruit.

He buys apples, bananas, peaches and oranges.

Ken buys

4 apples weighing 125 g each

2 bananas weighing 170 g each

3 peaches weighing 135 g each

Each orange has a weight of 90 g.

The fruit has a total weight of 1.785 kg.

(*a*)Work out how many oranges Ken buys.

......................................................

**(3)**

Jane wants to buy 15 tomatoes.

She asks for 1 kg of tomatoes at a shop.

Jane assumes that each tomato has a weight of 75 g.

(*b*)(i) If Jane’s assumption is correct, will she get 15 tomatoes?

You must show how you get your answer.

**(2)**

(ii) If Jane’s assumption is **not** correct, could she get 15 tomatoes?

Justify your answer.

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**(1)**

**(Total for Question 18 is 6 marks)**

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**TOTAL MARKS FOR PAPER: 58**